



# AFOMP SCHOOL-2021

Webinar - 02



EDUCATION FOR A BRIGHT FUTURE

## Medical Physics and Advanced Cancer Services 1: Physics in External Beam RT

22<sup>nd</sup> July 2021 , Thursday

6:30 AM GMT – 9:30 AM GMT

Moderated by: Prof. Arun Chougule

Time (GMT)	Topic	Speaker
6:30 AM	Introduction: Outline of the school, rationale of radiotherapy, a bit of radiobiology and the role of medical physicists in cancer management	Tomas Kron
7:00 AM	Medical linear accelerators: Institutional QA and external audits	Jeremy Hughes
7:30 AM	Shielding calculations and radiation surveys	Valery Peng and Michael Gilhen
8:00 AM	Question and answers Concluding Remarks	All speakers

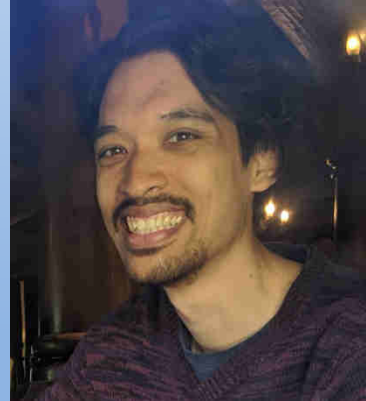
Medical Physics is a dynamic field characterised by change, challenges and opportunities. AFOMP is trying to capture this in a series of basic and advanced lectures covering topics of interest for the medical physics community. This part of the AFOMP summer school consists of 4 sessions throughout 2021 focusing on cancer care: 1. Physics in External Beam RT; 2. Stereotactic and special procedures; 3. Imaging and data for Therapy; 4. Brachytherapy and open sources.

The lectures reflect experience and practice at Peter MacCallum Cancer Centre, a comprehensive cancer centre engaged in service and research, in Melbourne Australia. Our services include stereotactic therapies using linac and Gamma knife, a wide range of anatomical and functional imaging, brachytherapy including electronic delivery and nuclear medicine therapies. Each lecture is followed by 5 minutes discussion and at the end of the 1.5 hour session six multiple choice questions pertaining to the three topics covered will be given to participants. A certificate will be issued for all participants who have answered 60% of the questions correctly. The answers need to be submitted to [Tomas.Kron@petermac.org](mailto:Tomas.Kron@petermac.org) prior to the next lectures and participants are encouraged to discuss the answers amongst themselves.

## Our Speakers Today



**Prof. Tomas Kron**  
Peter MacCallum Cancer  
Centre, Melbourne +  
University of Wollongong



**Jeremy Hughes**  
Clinical Medical Physicist  
Peter MacCallum Cancer  
Centre, Melbourne



**Valery Peng**  
Medical Physics Registrar  
Peter MacCallum Cancer  
Centre, Bendigo



**Michael Gilhen**  
Radiation Safety Officer  
Peter MacCallum Cancer  
Centre, Melbourne